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Curriculum vitae

PERSONAL INFORMATION

Ožbolt Menegatti

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www.ozbo.lt

Gender Male | Nationality Slovenian

WORK EXPERIENCE

October 2019 – now

Software Architect

Abrantix d.o.o.
Sermin 75H, 6000 Koper (Slovenia)

— Extensive knowledge of EMV, EP2 and Gklp protocols;
— Development and Maintenance of POS terminal software for Worldline;
— Transition from in-house TFS solutions to Azure DevOps based system using git repositories and pipelines for continuous testing and integration,
— Adapting legacy C codebase for Android platform using JNA as communication layer,
— Development of security modules base on Trustonic security environment,
— Improvements to open source ASN1 library asn1c

October 2018 – February 2020

Software development and maintenence

Center za jezikovne vire in tehnologije
University of Ljubljana, Slovenia

— Helped in development of cloud dictionary creating and editing tool Lexonomy.eu.
— Developing tools for manipulating large amounts of data in XML TEI and CoNLL-U formats.
— Server administration.
— Porting and fixing of Windows applications for Linux.
— Development of XML editing interfaces for development of dictionaries used by Slovene language experts.

December 2018

Multimedia center for music school

Glasbena šola Idrija
Prelovčeva 9, 5280 Idrija, Slovenia

— Developed anapplication for viewing PDF slide shows, playing of music and live concert viewing on TV screen.
— Management using HTTP web server based on Flask library.
— Hardware designed around Raspberry Pi platform.
— Live streaming of video and audio using FFmpeg and VLC.

August 2015 – September 2018

Software Engineer

Guardiaris d.o.o.
Podjunska ulica 13, 1000 Ljubljana (Slovenia)

— Maintenance and improvement of legacy C++/Qt3 air traffic radar view system Albatross for Slovenian's air traffic control (KZPS).
— Development of camera pose estimation system based on OpenCV and RaspberryPy.
— Work on human skeleton detection system using convolutional neural networks.
— Developed other support tools, such as an embedded neural network library, camera calibration application and C++ ASN1c wrapper.
— Assistance with the switch of version control systems from subversion to git.

February 2012 – January 2013   Teaching instructor

Go-tel d.o.o.
Jadranska 27, 2000 Maribor (Slovenia)

Teaching instructor for high school and university students. Teaching mostly programming languages and other computer knowledge, but also electrical engineering, mathematics and physics.

EDUCATION AND TRAINING

2012 – 2014   Bachelor of Science in Computer Science

Faculty of Computer and Information Science, University of Ljubljana, Slovenia

completed with an average grade of 8.9/10

2015 –   Master of Science in Computer Science

Faculty of Computer and Information Science, University of Ljubljana, Slovenia

completed 100 % of exams with an average grade of 9.0/10, on schedule to finish in 2019

PERSONAL SKILLS

Mother tongue   Slovenian

Other languages

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
B2	B2	B2	B2	B1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
Common European Framework of Reference (CEF) level

Communication skills and competences
- team work: I have successfully worked in a team of programmers, electrical and mechanical engineers to deliver a finished product;
- teaching skills: I work with colleagues and students as an instructor and a mentor;
- organizational skills: enrolled in multiple sporting groups and events, mostly running and football,
- freelance programming: a self employed programmer from October 2018 to October 2019

Programming skills
- dynamic languages: Python3, Octave/Matlab, Lua, Bash, also have experience in working with Javascript, CoffeeScript, Elm, Racket and Julia;
- static languages: C, Rust, C++, Java, also have experience in working with C#, D and Go;
- other domain specific languages: VHDL, SQL, Xpath, XSLT, XSD;
- Implementation of security protocols on Trustonic platform - no stdlib C, X509 certificates (rfc 5280), Signed/EncryptedData messages (rfc 5652) and simmilar;
- Java/C interface development using JNA interface on Android;
- web development in python both on backed on Flask platform and front end using transcrypt compiler, picnicss framework and snabbdom virtual dom library;
- computer vision library OpenCV, use of image processing, camera calibration and 3D reconstruction, pose estimation and marker recognition;
- machine learning using sklearn for different clustering, regression and classification algorithms and Pytorch for deep learning;
- Qt, PyQt, Fltk and Html/CSS for graphical interfaces;
- GNU, LLVM and Cargo build toolchains;
- Cython, Pypy and Pybind11 for Python performance improvements;
- STM32 arm embedded devices running FreeRTOS;

Other Technical skills	— finished 95% of Bachelor program in Electrical Engineering in University of Ljubljana,
	— attended a Cryptography 1 class on `coursera.org`,
	— extensive experience with Linux OS,
	— completed multiple projects using RaspberryPy computing platform.
	— Git and Mercurial version control systems,
	— integration of Gdb server debugger tool on embedded platforms into VisualStudio IDE,
	— development of Azure DevOps pipelines,
	— KiCAD electronics design software,
	— Gimp (image editing), Kdenlive (video editing) and FFmpeg/VLC (video and audio capture, conversion, streaming), yEd graphs

Other skills Enjoy all sports particularly running, bicycling, swimming, football and basketball. My hobbies also include a guitar and a chess board.

Driving licence AM, B1, B, G